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ABSTRACT

In 1972, the board of regents of the university system of Georgia directed that a testing program be established to provide information on the status of student competence in the areas of reading and writing. In addition, the program was to provide a uniform means of identifying those students who fail to attain minimum levels of competence expected of graduates in these areas. This paper describes the instrument and the grading procedure; reviews the related literature; examines the relationship between student background characteristics, college variables, and performance on the examination; explores predictability of student performance; and presents the implications for higher education. A list of references and tables of findings are included. (JM)

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# SYSTEM-WIDE LANGUAGE SKILLS EXAMINATION: A LOOK AT THE UNDERLYING FACTORS

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#### SYSTEM-WIDE LANGUAGE SKILLS EXAMINATION: A LOOK AT THE UNDERLYING FACTORS

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The trend toward universal availability of higher education has increased public focus upon the question of the basic competency in English language skills of contemporary college students. Higher education systems in California, Michigan, North Carolina, and Illinois are reported to be undertaking assessment of the language skills of their students.

The University System of Georgia in 1972 developed an evaluation procedure to assess the success of academic programs and to provide the needed information for decision-making about program development and improvement. The lack of an adequate and suitable testing instrument resulted in the development of a measurement instrument for the University System. A Board of Regents' policy adopted in 1972 decreed that this examination be instituted. It is a goal of the Regents "that students obtaining a degree...possess the basic competence of academic literacy, that is, certain minimum skills of reading and writing" (p. 1748). The objectives of the Regents' Testing Program are:

- To provide System-wide information on the status of student competence in the areas of reading and writing;
- 2. To provide a uniform means of identifying those students who fail to attain minimum levels of competence expected of graduates in the areas of reading or writing. (p. 1748)

Since the establishment of the program 75,735 examinations have been administered as of Spring, 1975, to students in the University System of Georgia which is comprised of 32 institutions ranging from small junior colleges to large universities.



This paper describes the instrument and grading procedure, reviews the related literature, examines the relationship between the student background characteristics, college variables and performance on the examination, explores predictability of student performance, and presents the implications for higher education.

#### Regents' Test and Grading Procedure

Officially, the Regents' Test is administered to all students during the first quarter of enrollment after they have received 45 credit hours. The test is divided into two parts--reading and essay. The reading part consists of a vocabulary portion which tests word usage and a reading comprehension portion. The essay part requires a student to write an essay on one of two topics given. Both parts of the test must be passed at the same administration.

The reading section of the test is scored based on the normative data from the original group tested. To pass, students must score higher than the tenth percentile. Teachers of English in the University System of Georgia score the essay on a criterion basis following a holistic procedure. Raters judge the essay on predetermined criteria of writing ability: (1) organization (limiting the subject; evidence of a thesis; and unity, logical development, coherence, and evidence of the development of the thesis; (2) rhetoric (diction, sentence structure, and point of view); and (3) mechanics (spelling, punctuation, and usage). The rating scheme is a four-point scale indicating essay quality:

1 (substandard); 2 (weak); 3 (good); and 4 (superior). Both the identity of the student and his institution are unknown to the rater. Each essay is scored independently by three faculty members. A score of "1" or "not acceptable" must have been assigned to the essay by at least two of the three raters.



#### Review of Related Literature

widely studied in recent years. The problem of low achievers in an "open door" college environment was explored by Roueche and Hurlburt (1968), Holstrom (1973), and Schoenfeldt et al. (1970). The rise of community junior colleges in Georgia has tended to accelerate the number of transfer students. The Committee on Transfer of Credit (1969) of the University System of Georgia dealt with transfer problems and developed a "core curriculum" to facilitate transfers. It should be noted that Regents' policy does not make passing the test a condition for transfer. Some relevant studies on the performance of transfer students compared with native students include Hills (1965), Panos et al. (1968), Walker (1969), Buckley (1970), and Melnick et al. (1970).

Since the implementation of the Regents' Test, experimental and research activities have dealt with many aspects of the test. Much of this research has been concerned with the essay since it largely accounts for failure on the total examination. Wells (1973) examined how well essay performance could be predicted using reading and writing objective tests and two different prediction models. Ravan (1973) made a validity check of the procedure used to evaluate the essay and found that while the scores from the analytic evaluation were somewhat lower than those from the holistic evaluation, the results established the same four ranks of essay quality. Thompson and Rentz (cited in French, 197', addressed the question of reliability of each rater using an accuracy percentage, defined as the percent of essays on which at least one other rater agreed with the score assigned. They found that during six administrations of the Regents' Test, there was perfect rater agreement in 30.9 percent of the cases, partial agreement in 60.2 percent of the cases, and total disagreement in 3.9 Percent of the cases. The work of French (1974) reported that "a small but statistically significant degree of relationship



was found between biographical factors and essay score, and between subgroup memberchip and essay score" (p. 24). However, she concluded that "it is not possible to identify, with any degree of certainty, subgroups of students who would be likely to experience difficulty with writing at the college level" (p. 24).

Litaker '1974) investigated item bias in the Regents' reading comprehensive testing instrument for homogeneous groups of institutions and concluded that "based on average item difficulty, the LSE [Regents' Test] was differentially difficult for the four groups of institutions studied. The Universities, the Senior 'olleges, the Junior Colleges, and then the Black Colleges found the test progressively more difficult" (p. 83).

#### Case Studies

This section of the paper presents the findings of two studies, one conducted in 1972 by Hickman and the other in 1975 by Prather and Smith. Both of these efforts sought to measure relationships between the Regents' Text and exogenous and endogenous factors. Exogenous factors include such variables as academic and family background, race, sex, and cognitive skills, while endogenous factors include those acquired in the student's higher education experience.

Junior colleges. The college variables included HSA, SAT-V, SAT-M, GPA and grades in core curriculum courses; the biographical variables consisted of sex, race, age, marital status, transfer status, and educational background of parents. The principal factors influencing student performance were sex and minority status, indicating that females and non-minorities perform better on the test after controlling for the ability level of the study population. Surprisingly, grades in English composition were not found to be correlated to performance on the test. It was concluded that school type was not a factor in performance on the Regents' Test.

in 1975 a follow-up study was undertaken, with the population limited to the university. Although a number of procedural and policy changes had transpired during the intervening years, a comparison in Table 1 shows very little difference between the two studies.

Insert Table 1 about here

#### Analysis Procedure

The least squares analysis of the test scores was performed in the 1975 study using a stepwise procedure which is a mathematical algorithm ranking regressors according to how much of the variance in the regressand is accounted for when controlling for the other variables previously entered into the analysis. This technique was used to locate those variables which had the strongest empirical association with the regressand. To aid in interpreting the regression analysis, the regression coefficient is given along with its standard error. The standardized regression coefficient (eta) is included so that relative impact of that regressor can be readily noted. The simple bivariate correlation between each regressor and the regressand is also supplied. One data problem encountered in the original report (1975) was the large amounts of missing data for certain key variables such as SAT's, GPA's, etc. To permit inclusion of these variables the mean value was substanted for missing values. A re-analysis of the data was performed incorporating a procedure recommended by Cohen (1968). This method allows for an objective measure of the impact of the missing data.

The data base was a weighted sample of those taking the test during Fall 1974, and Winter 1975, quarters. It represented the total of those students who failed or who had previously failed and were repeating the test, and a 34 percent sample of those who passed the first time. The unweighted sample N

was 1011 while the total population equaled 1910. (The slight variations from the utudy population number and those shown on the subsequent tables for the weighted N are due to rounding errors in the analysis).

#### Results

The first test score analyzed was with the regressand of the reading scores. The analysis is given in Table 2 and the multiple correlation squared was .530. The first regressors entered into the analysis were the SAT-Verbal test score and the cumulative GPA obtained at the university followed by non-minority status. The implication of these coefficients was that, all other regressors remaining unchanged, a verbal score of 600 would mean 14 points on the reading test over a verbal score of 300; that a 3.5 GPA was five points over a GPA of 2.0; and that non-minorities scored 6 points higher when compared to minorities of similar characteristics. Of the strongest endogenous regressors, being an English major added 3.8 points, while being a business major subtracted one point. Having taken English composition after 1971--at this university or other institutions--showed a negative impact on the reading score of about two points. The other endogenous variables showed little systematic impact on the reading score.

#### Insert Table 2 about here

The analysis with the essay score as the regressand is presented in Table 3. The multiple correlation squared (R<sup>2</sup>) was .194 and the standard error of estimate (SEE) was .534 relative to the scoring system of 1, 2, 3 or 4. Similar to the reading test analysis, among the first variables entered were cumulative GPA (at this university), SAT-Verbal, and Freshman GPA. Being female and non-minority was found to have positive influence on the essay score; being a male minority and taking English composition since 1972 to have a negative impact; and being a social science major to be a positive coefficient.

### Insert Table 3 about here

The analysis of success or failure on the total test is given in Table 4. The  $\mathbb{R}^2$  was found to be .155 and a SEE was shown to be .390 on the scale of one for a pass and zero for a fail. The weak  $\mathbb{R}^2$  and the large SEE made it difficult for the equation to have practical import. It was illustrative to interpret the coefficients as indicating an increase or decrease in the probability of passing the total test. For instance, a student with a 600 on the SAT-Verbal had a 15 percent higher chance of passing than with an SAT-Verbal of 300; a student with a 3.0 GPA had a 5.5 percent higher probability than the student with a 2.0 GPA; female and non-minority status students had a 14 percent higher chance; male and minority status students had a 13.5 percent decreased chance of passing; and students having had English composition since 1972 had a decreased probability of passing by about seven percent.

lnsert Table 4 about here

#### Predictability of Student Performance

The weak R<sup>2</sup>'s were further researched using a variant of least squares-multiple discriminant analysis which is a technique of statistically distinguishing among two or more groups. For one analysis the grouping characteristic
was the essay score and for the other the pass-fail score. The regressors
used in Tables 2 through 4 were the discriminant variables which were used
to measure how the grouping differed. The purpose of using the discriminant
analysis was to determine how well the essay scores category could be predicted
and whether the same could be applied to the pass or fail grouping. Table 5
contains the summary of how well the essay score could be predicted using
these criteria. The predictions were quite weak, with 35 percent of the
failure group being predicted to pass. Of those who actually passed, 27
percent were predicted to fail. Note that five of the failure students
would have been predicted to score four on the essay.



Insert Table 5 about here

The discriminant analysis in Table 6 is of the total test result. The analysis indicated that 71 percent of those who passed would have been predicted to pass, and 68 percent of those who actually failed were predicted to fail. Since the techniques are functionally equivalent, the strongest discriminating variable for both the essay and the final results were the same as those found in the regression.

Insert Table 6 about here

The low level of prediction found in this study is due to a number of possibilities, the first of which is the possible presence of measurement error in the regressor. But also there exist questions relative to the reliability of the essay (French, 1974) and its external validity. Unanswered questions affecting the predictability of the essay score are those of student attitudes toward the test and the effect of remedial training.

#### Summary and Implications

This paper has attempted to address the underlying factors influencing student performance on a system-wide language skills examination. The principal factors influencing language skills of college students, as measured by the Regents' Test, appear to be exogenous or external to an institution. One is left to wonder if what is taught is being tested and if what is tested is being taught. It can only be conjectured as to whether or not the massive testing program is doing more than just focusing attention on the problem. The establishment of remedial programs at each institution is a further attempt by the Regents to find a solution. But the problem remains: these writing skills, somewhat mysteriously acquired, appear elusive to measure. Test constructors and researchers have a continuing responsibility to apprise policy-makers of the limitations and implications of measurement tools.



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Table 1
Comparative Data on Regents' Test
1972 and 1975

ESSAY READING 1975 1975 Variables 1972 Study Study 1972 Study Study Total Univ Univ Total Univ Sub-Sample Sample Sub-Sample Sample Univ .03 Female .15 .18 .12 .03 .13 .42 Non-Minority .15 -.11 .17 .48 .32 -.09 -.03 .05 .04 -.01 Veteran -.06 Native Student .04 .03 .03 .15 .01 .005 .17 .09 HS GPA .23 .11 .21 .18 .32 .59 SAT - Verbal .37 .29 .75 .70 .17 SAT - Math .24 .57 .39 .37 .21 English Comp. GPA .20 .30 .13 .21 .39 .17 .42 .27 Freshman GPA .21 .20 .23 .28 .47 Cumulative GPA .26 .26 .30 .34 .44



Table 2
Regression Analysis of Regent's Test
Component: Reading Score

		Standard	•	
	Regressor	Error of		Simple
Regressors -	Estimators	Estimators	β	<u>r</u>
		<del></del>		
SAT-Verbal	.045	.002	.407	.586
GPA-Univ	3.247	.262	.254	.468
Non-Minority .	5,903	.703	.235	.421
Entered Higher Educ After 1971	<b>-</b> .590	.452	031	094
Other Eng. Indicator	.308	.125	.046	.210
English Major	3.764	1.066	.060	.139
Business Major	722	.476	035	111
Eng. Comp. After 1971-Other	-2.344	.501	111	130
Mother's Educ	.602	.297	.038	•142.
Eng. Comp. After 1971-Univ	-1.522	.482	076	003
Eng. Comp. GPA	.590	.163	.079	.165
Para-Medical Major	-1.749	.597	059	.002
Science Major	527	.165	071	.168
Freshman GPA	.713	.237	.073	.272
Education Major	-1.073	.567	037	092
Senior Col. Transfer	1.070	.767	.046	113
Business Indicator	247	.125	038	019
Missing Data:Year Grad H.S.	3.163	1.389	.051	.017
Missing Data:SAT-Verbal	929	.416	046	081
	2.453	.753	.110	.181
Univ Level Transfer	1.262	.797	.068	.033
Female	-1.083	.449	064	.087
H.S. GPA	-1.269	.596	066	021
Missing Data:H.S. GPA	1.539	.873	.076	072
Junior Col. Transfer	408	.213	059	009
Transfer GPA Indicator	176	.115	028	.128
Humanities Indicator	624	.522	025	113
Missing Data:Father's Educ	129	.079	078	071
Year Grad H.S.	.091	.076	.058	059
Year of Birth	.574	.612	.026	040
Non-System Community Col.	•554	.531	.021	.036
Social Science Indicator	.004	.005	.021	.022
Hours Transferred	694	.838	037	.220
Female-Non-Minority	.189	.251	.014	.169
Father's Educ	002	.002	016	.371
SAT-Math	.316	.547	.011	.070
Humanities Indicator	464	.717	011	049
Missing Data:GPA Univ		1.880	.012	011
Missing Data:Year of Birth	1.026	.533	.009	.125
Non-Repeat	.284	.392	.008	<del>-</del> .058
H.S. Located in County A	.181	.340	009	.007
Full-Time Employed	169	.531	.008	014
Veteran	.209	.170	003	.252
Social Science Indicator	025	.587	.003	103
Missing Data:Mother's Educ	.079	.307	•000	•100
Constant	38.479			
R <sup>2</sup>	F20			
R <sup>-</sup> Standard Error of Estimate	.530 6.443			
Weighted N	1916			
110 11 10 00 11				



Table 3
Regression Analysis of Regent's Test
Component: Essay
(Pass=2, 3 or 4; Fail=0)

		Standard		
	Regressor	Error of		Simple
Regressors	Estimators	Estimators	β	r
GPA-Univ	.127	.022	.156	•299°
SAT-Verbal	.0006	.0002	.090	.289
Female-Non-Minority	.064	.047	.054	.177
Freshman GPA	.065	.020	.106	.228
Non-Repeat	•149	.044	.073	.128
Eng. Comp. After 1971-0ther	074	.041	056	086
Social Science Major	.123	.041	.072	. •065
Other Eng. Indicator	.027	.010	.063	.162
SAT-Math	.0006	.0002	.089	237
Male-Minority	158	.066	064	140
Social Science Indicator	032	.014	063	.147
Year of Birth	013	.006	126	052
Missing Data:GPA Univ	.106	.059	.040	011
Missing Data:SAT Math	071	.319	055	036
Missing Data:H.S. GPA	.145	.049	.119•	.002
H.S. GPA	.068	.037.	.064	.106
Mother's Educ	.048	.025	.048	.075
H.S. Located in County A	089	.035	063	066
Transfer GPA Indicator	010	.018	024	016
Business Indicator	.026	.010	.062	.030
	056	.036	043	104
Business Major Eng. Comp. After 1971-GSU	073	.040	057	.020
	0008	.0004	056	009
Hours Transferred	.043	.040	.030	.102
Transferred from Univ. Level	.010	.010	.025	.119
Humanities Indicator	036	.034	027	.004 _
H.S. Located in County B	.013	.014	.027	.128
Eng. Indicator	.008	.007	.079	051
Year Grad. from H.S.	142	.115	036	024
Missing Data: Year Grad. H.S.	.054	.063	.041	.031
Native Student	.022	.043	.014	035
Missing Data:Father's Educ	040	.050	034	050
Male-Non-Minority	021	.043	011	028
Education Major	.013	.021	.016	.073
Father's Educ	008	.014	016	.163
Science Indicator	.020	.044	.012	031
Veteran	.056	.155	.011	023
Missing Data:Year Birth		.037	010	025
Year Entered Higher Educ	012	.042	.007	.030
Humanities Indicator	.012	.042	.004	030
Missing Data: Mother's Educ	.008	.039	005	086
Junior Coll. Transfer	006	.319	025	035
Missing Data:SAT-Verbal	032	.313	0,23	-,005
Constant	.326			
$R^2$	.194			
R Standard Error of Estimate	.534			
Weighted N	1916			
······································				•

# Table 4 Regression Analysis of Regent's Test Component: Results (Pass=1, Fail=0)

•		Standard		
· . /	Regressor	Error of		Simple
Regressors	Estimators	Estimators	<u> </u>	<u> </u>
CAM Marshall	.0005	.0002	.098	. 263
SAT-Verbal	.055	.016	.096	.229
GPA-Univ	.136	.035	.159	.189
Female-Non-Minority		.234	238	082
Missing Data:SAT-Math	218	.0002	.073	.214
SAT-Math	.0004	.042	077	<b></b> 152
Male-Minority	135	.034	.065	.052
Social Science Major	.079		.064	.176
Freshman GPA	.028	.014 .032	.048	.112
Non-Repeat	.069		072	052
Eng. Comp. After 1971-Other	069	.026	091	.013
Eng. Comp. After 1971-Univ	082	.029	022	074
Missing Data-Year Birth	082	.114	022	028
Hours Transferred to Univ	0009	.0003	.098	018
Missing Data-H.S. GPA	.085	.036	056	059
H.S. Located County A	057	.026	.024	.116
Other Eng. Indicator	.007	.008	.058	034
Missing Data-Father's Educ	.064	.03.	.033	023
Veteran	.040	.032	.044	.069
Mother's Educ	.031	.018		.009
Business Indicator	.011	.008	.036	.032
Native Student	.074	.044	.079	.009
Transfer GPA Indicator	.020	.013	.064	065
Missing Data-Year Grad H.S.	170	.084	061	076
Business Major	014	.031	015	.013
Para-Medical Major	050	.041	037	004
Missing Data-GPA	.035	.043	.019	
Eng. Comp. GPA	.015	.010	.045	.106 .125
Social Science Indicator	010	.010	028	.094
H.S. GPA	.032	.027	.042	
Male	037	.037	038	.106 .123
Science Indicator	<b>0</b> ₹%	.010	017	
H.S. Located-County B	01	.026	011	.037
Missing Data-SAT Verbal	.137	.233	.150	080
Missing Data-Mother's Educ	020	.036	015	056
Science Major	.031	.037	.029	.024
Junior Col. Transfer	006	.038	007	044
Year of Birth	009	.005	121	011
Year Graduated H.S.	.009	.005	.121	006
Humanities Major	.025	.035	.020	.028
Education Major	.024	.036	.018	003
Full-Time. Employed	.009	.021	.010	.004 .072
Father's Educ	.006	.016	.010	028
Non-System Community Col.	009	.038	009	.074
Humanities Indicator	.008	.007	.003	
Senior Col. Transfer	003	.029	003	041
Constant	334			
R <sup>2</sup>	.155			
. Standard Error of Estimate	.390			
Weighted N	1016 .			
	16		1	*

Table 5

Summary of Multiple Discriminant Analysis
Based Upon Results of the Essay

		Predicted			<u>Total</u>
Actual Scores		Scores on Essay			
	1	2	3 .	4	
1	273	103	38	5	419
2	387	504	353	17	1261
3	18	49	151	6	224
4				9	9
TOTAL	678	656	542	37	1913



Table 6

Summary of Multiple Discriminant Analysis
Based Upon Results of Total Test

Actual Performance	Predicted F		
	<u>Fail</u>	<u>Pass</u>	Total
Fail	296	138	434
Pass	426	1053	1479
TOTAL	722	1191	1913

